MATERIAL SAFETY DATA SHEET



1. Product and Company Identification

 Material name
 DPA™

 Version #
 04

Revision date 28-May-2009

Chemical description Solid
CAS # Mixture
Company CETCO

Drilling Products Group 2870 Forbs Avenue

Hoffman Estates, IL 60192 US safetydata@amcol.com http://www.cetco.com/

General Information (800) 527-9948 CHEMTREC® (800) 424-9300

2. Hazards Identification

Potential health effects

Routes of exposure Ingestion. Inhalation. Eye contact Skin contact.

Eyes Can cause severe eye irritation. Symptoms include itching, burning, redness and tearing.

Skin Contact with liquid may produce severe skin irritation including redness, inflammation and

chemical burns.

Inhalation Can cause severe respiratory irritation. Inhalation of vapors/fumes generated by heating this

product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.

Ingestion Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway,

esophagus and possibly the digestive tract.

3. Composition / Information on Ingredients

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

Composition comments This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if

irritation develops or persists.

Skin contact Immediately flush skin with running water for at least 20 minutes. Remove and isolate

contaminated clothing and shoes. Launder contaminated clothing before reuse. Get medical

attention if irritation develops or persists.

Inhalation If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if

cough or other symptoms develop.

Ingestion If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

Have victim rinse mouth thoroughly with water. Give victim water or milk.

5. Fire Fighting Measures

Flammable properties

This material will not burn.

Extinguishing media

Suitable extinguishing

Use any media suitable for the surrounding fires.

media

Accidental Release Measures

Personal precautions Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Do not touch or walk through spilled material.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush

into surface water or sanitary sewer system. Runoff from fire control or dilution water may be

corrosive and/or toxic and cause pollution.

Methods for containment Stop leak if you can do so without risk. Dike the spilled material, where this is possible.

Methods for cleaning up

Large spills may be neutralized with dilute alkaline solutions of soda ash, or lime. Vacuum or sweep up material and place in a disposal container. Clean contaminated surface thoroughly.

7. Handling and Storage

Handling

Storage

Avoid contact with skin and eyes. Do not get this material in your eyes, on your skin, or on your

clothing. When using do not eat or drink. Wash hands after handling and before eating.

Keep locked-up. Keep out of the reach of children. Keep this material away from food, drink and animal feed. Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure Controls / Personal Protection

Engineering controls

Local exhaust is suggested for use, where possible, in enclosed or confined spaces,

Personal protective equipment

Eye / face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Skin protection

Wear appropriate chemical resistant gloves. Use of butyl rubber or nitrile gloves is recommended Normal work clothing (long sleeved shirts and long pants) is recommended. Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Respiratory protection

No personal respiratory protective equipment normally required. If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

General hygeine considerations

When using do not eat or drink. Keep away from food, drink and animal feeding stuffs, Use good industrial hygiene practices in handling this material.

9. Physical & Chemical Properties

Appearance

Powder.

Color

Dark violet.

Odor

None.

Odor threshold

Not available.

Physical state

Solid.

Form

powder

pН

Melting point

579.2 °F (304 °C) estimated

Freezing point

Not available.

Boiling point

Not available. Not available.

Flash point **Evaporation rate**

Not available.

Flammability

Not available.

Flammability limits in air,

upper, % by volume

Not available.

Flammability limits in air. lower, % by volume

Not available.

Vapor pressure

0.19 hPa estimated

Vapor density

Not available.

Specific gravity

1.8401 estimated

Relative density

1.8399 g/cm3 estimated

Solubility (water) Partition coefficient Complete

(n-octanol/water)

Not available.

Auto-ignition temperature

Not available.

Decomposition temperature

Not available.

VOC

0 % estimated

Percent volatile

0 % estimated

10. Chemical Stability & Reactivity Information

Chemical stability

Stable at normal conditions. No hazards to be especially mentioned.

Conditions to avoid

None known.

Incompatible materials

May react with strong bases or oxidizing agents.

Hazardous decomposition

products

Upon decomposition, this product may yield sulfur dioxide, carbon monoxide, carbon dioxide

and/or low molecular weight hydrocarbons.

Possibility of hazardous

reactions

Will not occur.

11. Toxicological Information

Toxicological data

Test Results	
Acute Dermal LD50 Rabbit: 30930 mg/kg	
Acute Oral LD50 Mouse: 28160 mg/kg estimated	
Acute Oral LD50 Rat: 1766 mg/kg estimated	
Acute Other LD50 Mouse: 18318 mg/kg estimated	

^{*} Estimates for product may be based on additional component data not shown.

Acute effects

Acute LD50: 30930 mg/kg, Rabbit, Dermal

Acute LD50: 28160 mg/kg, Mouse, Oral, estimated

Carcinogenicity

Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.

Further information

Corrosive effects.

12. Ecological Information

Ecotoxicological data

Product	Test Results
DPA™ (Mixture)	EC50 Daphnia: 1412 mg/l 48.00 Hours estimated
	LC50 Fish: 54.98 mg/l 96.00 Hours estimated

^{*} Estimates for product may be based on additional component data not shown.

Ecotoxicity

Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon

exposure to aquatic organisms and aquatic systems. Components of this product have been

identified as having potential environmental concerns.

Environmental effects

Harmful to aquatic life.

Persistence and degradability

Not available.

13. Disposal Considerations

Disposal instructions

Dispose in accordance with all applicable regulations. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

14. Transport Information

DOT

Basic shipping requirements:

UN number

UN3262

Proper shipping name

Corrosive solid, basic, inorganic, n.o.s. (Sulfamic acid)

Hazard class

8

Packing group
Additional information:

Special provisions

IB7, IP1, T6, TP33

Packaging exceptions Packaging non bulk None 211

Packaging bulk ERG number 242 154



IATA

Basic shipping requirements:

Proper shipping name

Corrosive solid, basic, inorganic, n.o.s. (Sulfamic acid)

Hazard class

UN number Packing group 3262

Additional information:

Packaging instructions

811

cargo only

Maximum net quantity

1 kg

packaging

Maximum net quantity

25 kg

packaging cargo only

ERG code

8L



IMDG

Basic shipping requirements:

Proper shipping name

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sulfamic acid)

Hazard class

8

Subsidiary hazard class

UN number

3262



15. Regulatory Information

US federal regulations

OSHA Process Safety Standard: This material is not known to be hazardous by the OSHA Highly Hazardous Process Safety Standard, 29 CFR 1910.119.

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance

Nο

Section 311 hazardous

Yes

chemical

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

Toxic Substances Control Act (TSCA) Inventory

State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other Information

United States & Puerto Rico

Further information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

HMIS ratings



NFPA ratings

Health: 3 Flammability: 0 Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.

Third party materials: Insofar as materials not manufactured or supplied by this manufacturer are used in conjunction with, or instead of this product, it is the responsibility of the customer to obtain, from the manufacturer or supplier, all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of this product in conjunction with materials from another supplier.

Issue date

28-May-2009

This data sheet contains changes from the previous version in section(s):

Product and Company Identification: Physical States

Physical & Chemical Properties: Physical & Chemical Properties

Physical & Chemical Properties: Appearance Physical & Chemical Properties: Form

Material name: DPA™ CETCO - Drilling Products Group

MSDS US

Yes